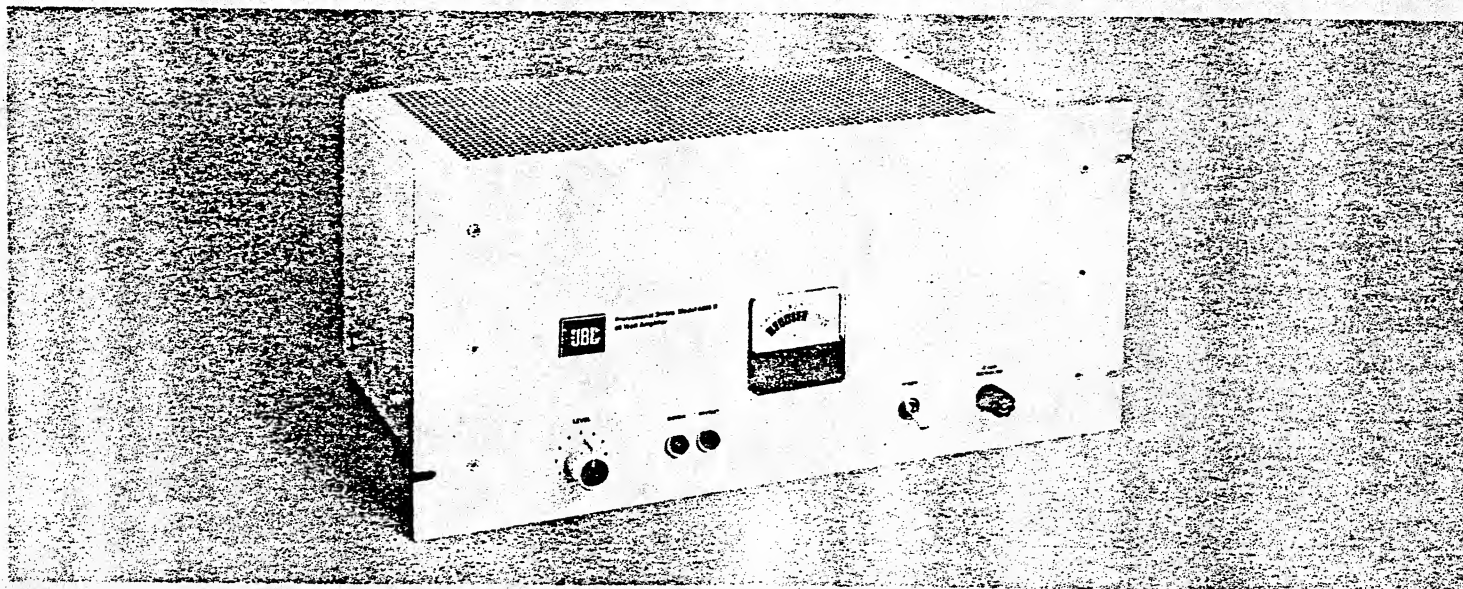


Professional Series Model 6006B Power Amplifier

60 watts @ less than
1.0% THD 40-12 kHz
35 dB signal to noise ratio
Power output meter



The JBL 6006B is a highly reliable, conservatively rated amplifier, designed for professional sound engineering applications where a high degree of performance is required.

The circuitry has been carefully designed to reduce the possibility of failure within the specified environmental and electrical conditions. A protective circuit is utilized in this amplifier which makes it virtually impossible to damage it under any conditions of overload, including shorted or grossly mismatched load, inductive load at low frequencies, capacitive load at high frequencies, excessive input signal, white noise or installation errors.

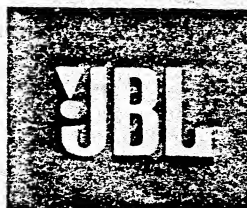
The JBL 6006B can be overdriven by at least ten times normal input voltage, from 40 Hz-12 kHz, and eventually produces square waves increasing in RMS value up to about 110 watts at which point the output actually begins to decrease.

The DC fuse is intended as a protective device for the power supply in the event of output stage malfunction. It is not intended to protect the output transistors which are guarded by the special circuitry provided. As an

indication of high-frequency stability, the JBL 6006B draws only 30% more power from the AC line at 12 kHz, 60W, than at 1 kHz for at least one hour without malfunction or entering the "protect" mode.

The 6006B amplifier is designed for maximum flexibility in varying input and output arrangements. A standard unbalanced 50K input is provided which can be converted to balanced line bridging or matching with the installation of the accessory 5195 transformer. A low cut filter switch reduces the possibility of damaging horns. All the power outputs are balanced and the bridging output unbalanced.

The excellent engineering of this unit is accompanied by an equally excellent layout with serviceability in mind at all times. All components are accessible and easily replaced with particular emphasis on output and driver device removal and installation.



Model 6006 B — Power Amplifier

Architectural Specifications

The amplifier shall be capable of delivering an output of 60W RMS with less than 1.0% THD, 40-12,000 Hz, and 75W RMS from 50 to 8000 Hz with less than 4% THD.

The high impedance program input shall be provided with a socket to accommodate a balanced line with isolation. Matching and bridging inputs shall be available. Screw type terminal boards shall be provided for the balanced line inputs as well as for the high impedance unbalanced input. In addition, a phono plug shall be provided for the high impedance input. A low frequency filter switch shall be provided.

The amplifier shall have balanced 8-ohm, 16-ohm and 70.7-volt outputs on a screw type terminal board listed by Underwriters' Laboratories, Inc. for class 2 wiring.

The amplifier shall be equipped with a protective circuit which will prevent damage due to overload. A power output meter shall be standard equipment.

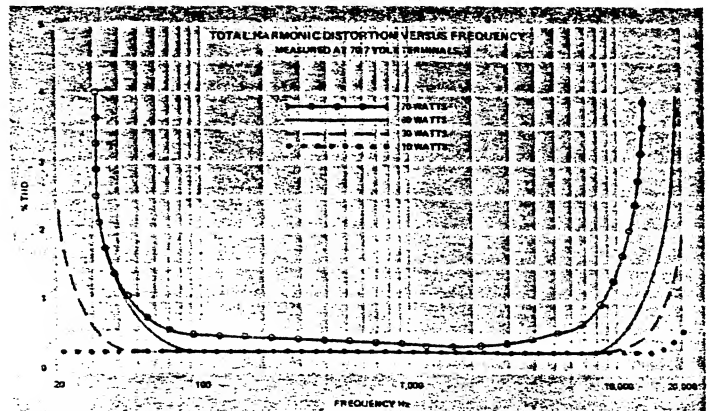
The amplifier shall operate on 120/240 VAC, 50/60 Hz power source.

The performance specifications shall be as listed under SPECIFICATIONS and shall be met or exceeded.

The amplifier shall be listed by the Underwriters' Laboratories, Inc.

The amplifier shall be JBL Model 6006B.

Specifications	
Power Gain	88 dB
Input Sensitivity	
Unbalanced Hi-Z	
(50,000 ohms)	0.7 volts
Balanced Bridging	
5195 Transformer	
(15,000 ohms)	0.363 volts
Balanced Matching	
5195 Transformer	
(800 ohms)	0.077 volts
Power Output	
60 Watts at less than 1.0% THD	
40 to 12,000 Hz	
75 Watts at less than 4% THD	
50 to 8000 Hz	
Power Bandwidth	
(At Rated Power)	40 to 12,000 Hz
Total Harmonic Distortion	Less than 1.0%
Intermodulation Distortion	
(SMPTE Standard)	
Full Power	Less than 2.0%
10 Watts RMS	Less than 1.0%
16 Watts RMS	Less than 1.0%
Frequency Response	
(Measured at 1 Watt)	20 to 20,000 Hz ±2 dB
Load Impedance	8, 16 or 70.7 ohms
Transformer Isolation	4 ohms
Unbalanced Direct Output	
Load Voltage	
(Full Power)	
8-ohm output	15.3 volts
16-ohm output	21.9 volts
70.7-volt output	37.0 volts
Output Regulation	Better than 15%
Signal-to-Noise Ratio	Better than 85 dB below full power
Low Cut Filter	
(Over Panel Slide Switch)	6 dB/octave below 250 Hz
Tone Pace Control	
Power	Toggle
Level	Continuous
Indicator	
Normal	Green
Protect	Red
Level Meter	48 Watts output at 0
Power Supply	120/240 VAC, 50/60 Hz
Power Consumption	
Quiescent	20 Watts
33% Output	77 Watts
Full Power	125 Watts
Efficiency	60% at 125 Watts
Maximum Ambient	40°C (104°F)
Operating Temperature	140°F (60°C)
Special Features	Overload protection circuit AC conversion circuit (switchable)
Dimensions	
Including Controls	5-3/4" x 19" x 11-5/8" deep
4 Depth Mount Panel	22.2 x 44.5 x 23.5 inches
Mounting	20.25" x 44.5" x 23.5"
Mounting	5 5/8" standard rack space
Panel Finish	Non-glare bead enamel, light gray
Net Weight	37 lbs.
Shipping Weight	47 lbs.
Warranty	2 years
Listing	Underwriters' Laboratories, Inc.
Accessory	5195 Matching/Bridging Transformer



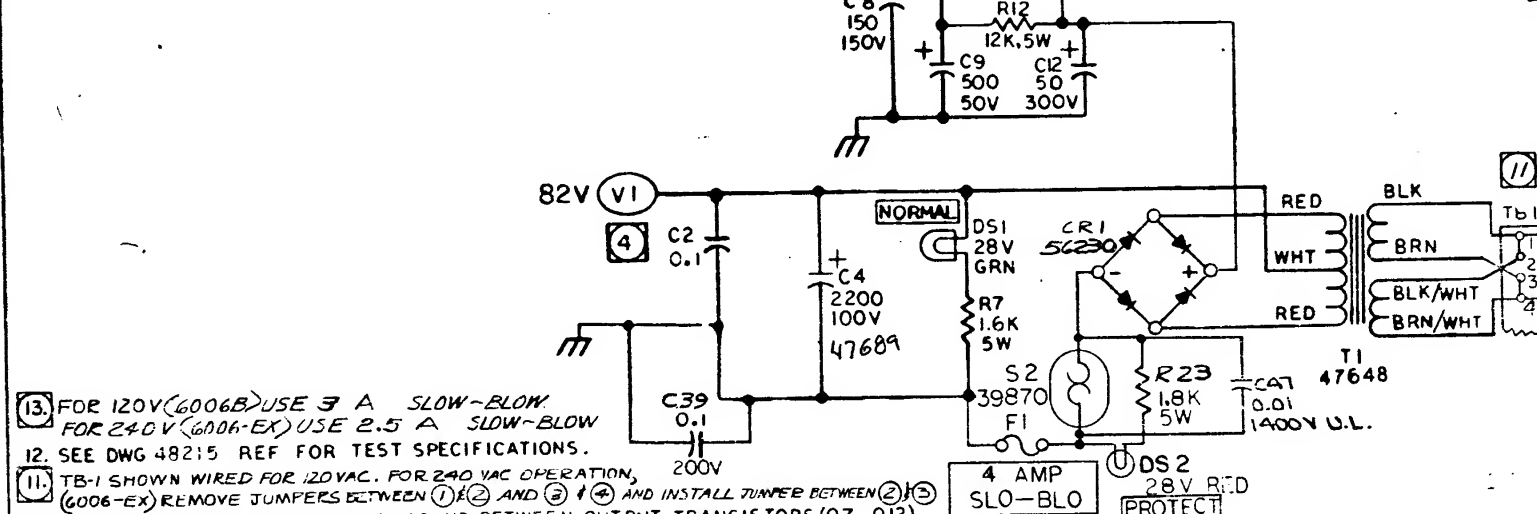
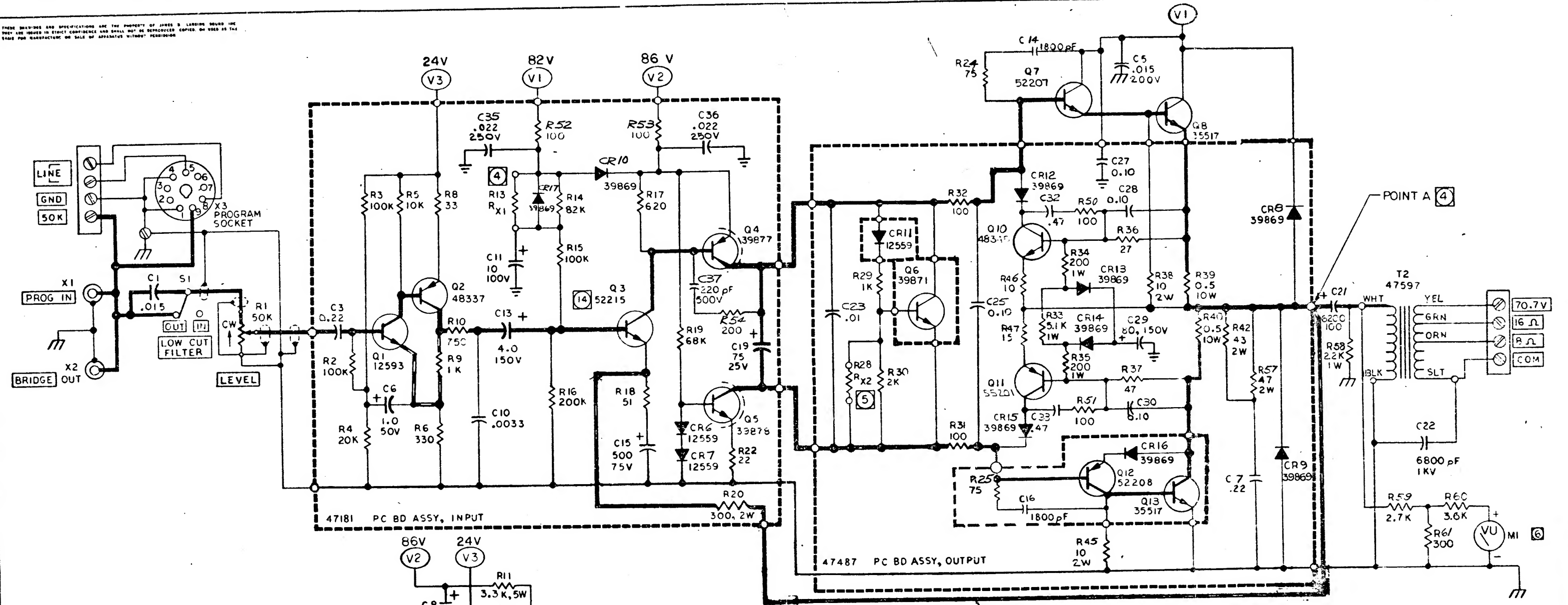
PP6006B/75 Printed in U.S.A.



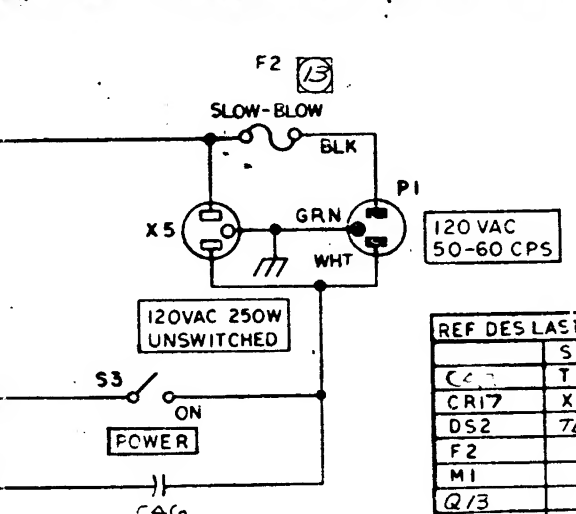
Professional Series
Professional Division

James B. Lansing Sound, Inc., 3249 Casitas Avenue, Los Angeles, California 90039

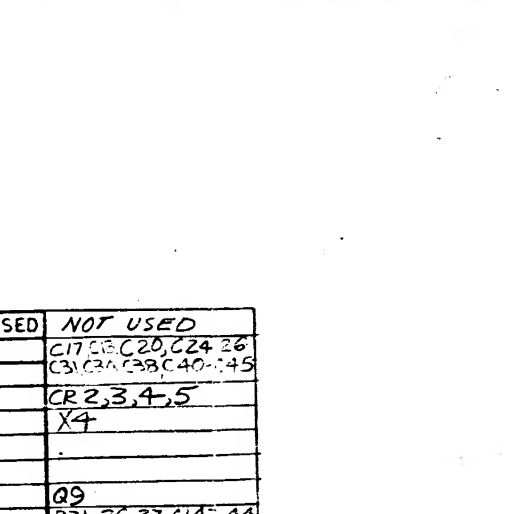
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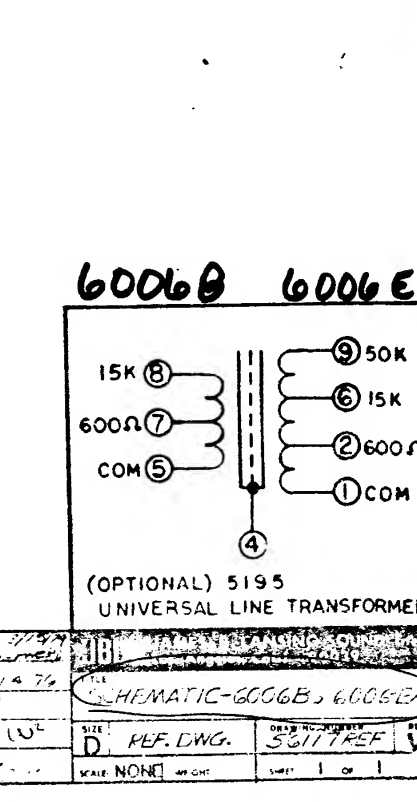
13. FOR 120V(6006B) USE 3 A SLOW-BLOW. FOR 240V(6006EX) USE 2.5 A SLOW-BLOW.
12. SEE DWG 48215 REF FOR TEST SPECIFICATIONS.
11. TB-1 SHOWN WIRED FOR 120VAC. FOR 240 VAC OPERATION, (6006-EX) REMOVE JUMPERS BETWEEN ① & ② AND ③ & ④ AND INSTALL JUMPER BETWEEN ② & ③.
10. APPLY ZINC OXIDE THERMAL COMPOUND BETWEEN OUTPUT TRANSISTORS(Q7-Q12) AND INSULATOR, AND INSULATOR AND HEAT-SINK.
9. ALL GROUND SYMBOLS ARE PHYSICALLY CONNECTED TO ONE COMMON CHASSIS POINT.
- 8.
7. XX IS DC VOLTAGE WITH VTVM REFERRED TO CHASSIS GROUND WITH NO SIGNAL.
6. AT 48W OUT VU METER TO READ ZERO.
5. ADJUST RX2 FOR 10mV MIN. 20mV MAX. ACROSS 0.50Ω COLLECTOR RESISTOR AT THE OUTPUT TRANSISTOR, VOM LEADS MUST BOTH FLOAT FROM CHASSIS GND POTENTIAL.
4. ADJUST RX1 FOR 1/2 OF (V1) AT POINT A.
3. JBL RESERVES THE RIGHT TO MAKE MINOR COMPONENT CHANGES WITHOUT NOTICE.
2. CAPACITORS IN MICROFARADS. THOSE OVER 1.0μF ARE POLARIZED ELECTROLYTICS, POLARITY SHOWN.
1. RESISTORS IN OHMS, 1/2 WATT ±5%.
- NOTES: UNLESS OTHERWISE SPECIFIED



REF	DES	LAST USED	NOT USED
C1	S3		C17, C20, C24, 26
C2	T2		C3, C3A, C3B, C40, C45
CR17	X5		CR2, 3, 4, 5
DS2	TB1		X4
F2			
M1			
Q13			Q9
R6			R21, 26, 27, 41, 43, 44



REF	DES	LAST USED	NOT USED
C1	S3		C17, C20, C24, 26
C2	T2		C3, C3A, C3B, C40, C45
CR17	X5		CR2, 3, 4, 5
DS2	TB1		X4
F2			
M1			
Q13			Q9
R6			R21, 26, 27, 41, 43, 44



6006B 6006EX

15K ⑧ 50K ⑨

600Ω ⑦ 15K ⑥

COM ⑤ 600Ω ②

COM ⑤ 1 COM ①

(OPTIONAL) 5195 UNIVERSAL LINE TRANSFORMER